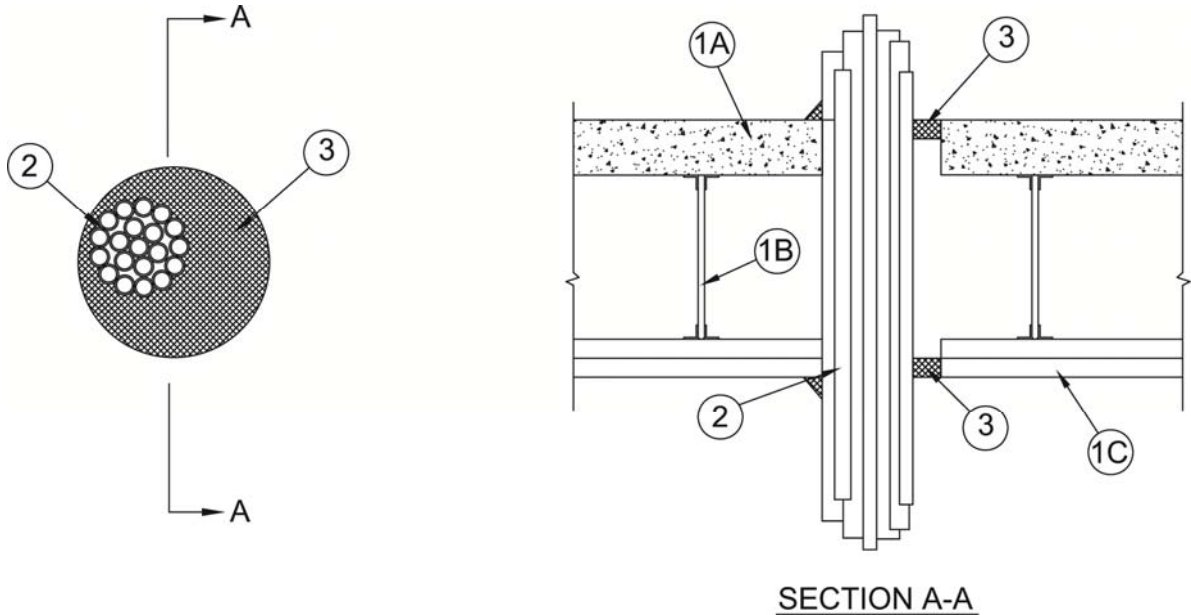


# System No. F-E-3013



F Rating - 1 Hr

T Rating - 1 Hr



1. **Floor-Ceiling Assembly** - The 1 hr fire rated concrete and steel joist Floor-Ceiling assembly shall be constructed of the materials and in the manner described in the individual G500-Series Design in the UL Fire Resistance Directory, as summarized below:
  - A. **Joists** - Steel joists or Structural Steel Members\* as specified in the individual G500-Series Design.
  - B. **Flooring** - Normal or lightweight concrete (100-150 pcf or 1600-2400 kg/m<sup>3</sup>) as specified in the individual G500-Series Design. Max diam of opening is 3 in. (76 mm).
  - C. **Gypsum Board\*** - Min 5/8 in. (16 mm) thick, screw-attached to furring channels as specified in the individual G500-Series Design. Max diam of opening is 3 in. (76 mm).
  
2. **Cables** — Max 2 in. (51 mm) diam cable bundle installed eccentrically or concentrically within opening. Annular space between cable bundle and periphery of opening to be min 0 in. (point contact) to max 1 in. (25 mm). Cable bundle to be rigidly supported on both sides of floor-ceiling. The following types and sizes of cables may be used:
  - A. Max 25 pair No. 22 AWG (or smaller) copper conductor with polyvinyl chloride (PVC) insulation and jacketing material.
  - B. Max 7/C No. 12 AWG (or smaller) copper conductor power and control cables with XLPE or PVC insulation with XLPE or PVC jacket.
  - C. Max 4/C No. 10 AWG (or smaller) copper conductor, aluminum clad or steel clad (BX) cable.
  - D. Max 110/125 fiber optic (F.O.) cable with PVC insulation and jacket.

- E. Max 3/C with ground No. 12 AWG (or smaller) copper conductor NM cable with PVC insulation and jacket.
  - F. Type RG/U coaxial cable with fluorinated ethylene insulation and jacket.
3. **Fill, Void or Cavity Materials\* - Sealant** — Min 3/4 in. (19 mm) thickness of caulk applied within annulus, flush with top surface of floor. Min 5/8 in. (16 mm) thickness of caulk applied within annulus, flush with bottom surface of ceiling. Min 1/4 in. (6 mm) diam bead of caulk applied at point contact locations at cable bundle / floor interface on top surface of floor and at cable bundle / ceiling interface.

**NUCO INC.** — Self Seal GG-200

\* Bearing the UL Classification Mark